

Title (en)
SHEAR SEAL ASSEMBLY

Publication
EP 0024789 A3 19810325 (EN)

Application
EP 80301727 A 19800523

Priority
US 7900665 W 19790830

Abstract (en)
[origin: WO8100542A1] A shear seal assembly (65) has an inner sleeve (66) and an outer sleeve (68) with an elastomeric material bonded therebetween. One sleeve (66, 68) has a circumferential groove (74) formed in the exposed wall (76) thereof in which groove (74) an O-ring (78) nests. The assembly is mounted between two telescopic members (28, 38) that have limited relative rotation. The sleeve without the groove (74) is press fit on or in one member (28, 38) and the sleeve (68) with the groove (74) will be spaced from the other member (28, 38) so that the O-ring (78) will extend from the groove (74) into sealing contact with said other member (28, 38). Clips or retainers (82) are provided for seating the grooved sleeve (66, 68) to said other member (28, 38) whereby limited relative rotation or oscillation between the members takes place without rupturing the elastomeric material. The shear seal can be removed without destroying the shear seal structure so that it can be reused.

IPC 1-7
B62D 55/20; **B62D 55/14**; **F16J 15/52**

IPC 8 full level
F16J 15/32 (2006.01); **B62D 55/088** (2006.01); **B62D 55/104** (2006.01); **F16J 15/52** (2006.01)

CPC (source: EP US)
B62D 55/0887 (2013.01 - EP US); **B62D 55/104** (2013.01 - EP US); **F16J 15/52** (2013.01 - EP US)

Citation (search report)

- US 2944843 A 19600712 - COLBY GEORGE E
- US 2990220 A 19610627 - JOSEPH MALONE
- DE 879496 C 19530615 - AUDI AG
- [A] US 3680924 A 19720801 - OTTO ROBERT J, et al
- [A] US 3218107 A 19651116 - REINSMA HAROLD L
- [A] FR 517868 A 19210514 - BREMER HUGO E [DE]
- [A] FR 2412014 A1 19790713 - CATERPILLAR TRACTOR CO [US]

Designated contracting state (EPC)
FR GB IT

DOCDB simple family (publication)
WO 8100542 A1 19810305; BR 7909028 A 19810609; EP 0024789 A2 19810311; EP 0024789 A3 19810325; JP S56501041 A 19810730; US 4253674 A 19810303

DOCDB simple family (application)
US 7900665 W 19790830; BR 7909028 A 19790830; EP 80301727 A 19800523; JP 50188479 A 19790830; US 9519279 A 19790830